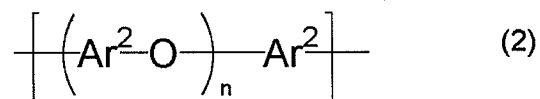
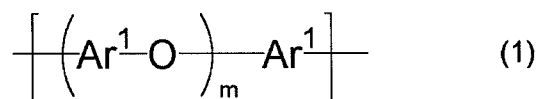


**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): An aromatic-polyether-type ion-conductive ultrahigh molecular weight polymer having an ion exchange capacity of 0.1 meq/g or higher and a structure comprising an aromatic-polyether-type ultrahigh molecular weight polymer in which an acid group introduced, said aromatic-polyether-type ultrahigh molecular weight polymer having at least one structural unit selected from those represented by the following formulas (1) and (2) and the sum of the number a of the structural unit of the formula (1) and the number b of the structural unit of the formula (2) being 2 or larger:



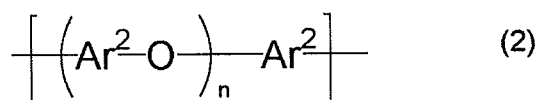
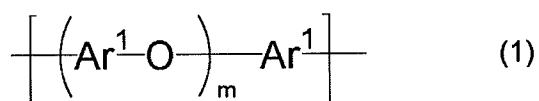
[[[]]wherein Ar<sup>1</sup> and Ar<sup>2</sup> independently represent an aromatic divalent group, m and n represent repeating numbers, m and n independently represent a numeral of 10 or more, and a plurality of Ar<sup>1</sup>, a plurality of Ar<sup>2</sup>, a plurality of m and a plurality of n may be different respectively[[[]]; and wherein the aromatic-polyether-type ultrahigh molecular weight polymer has a number-average molecular weight in terms of polystyrene of 100,000 or more.

2. (currently amended): ~~An~~ The aromatic-polyether-type ion-conductive ultrahigh molecular weight polymer according to claim 1, wherein the acid group is sulfonic acid group.

3. (original): A process for producing the aromatic-polyether-type ion-conductive ultrahigh molecular weight polymer of claim 1 which comprises introducing an acid group into an aromatic-polyether-type ultrahigh molecular weight polymer having at least one structural unit selected from those represented by the formulas (1) and (2) described in claim 1, the sum of the number a of the structural unit of the formula (1) and the number b of the structural unit of the formula (2) being 2 or larger.

4. (original): A process according to claim 3, wherein the acid group is sulfonic acid group.

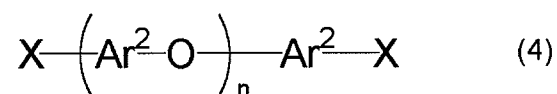
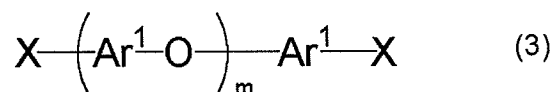
5. (currently amended): An aromatic-polyether-type ultrahigh molecular weight polymer having at least one structural unit selected from those represented by the following formulas (1) and (2) ~~described in claim 1~~, the sum of the number a of the structural unit of the formula (1) and the number b of the structural unit of the formula (2) being 2 or larger:



wherein Ar<sup>1</sup> and Ar<sup>2</sup> independently represent an aromatic divalent group, m and n represent repeating numbers, m and n independently represent a numeral of 10 or more, and a plurality of Ar<sup>1</sup>, a plurality of Ar<sup>2</sup>, a plurality of m and a plurality of n may be different respectively; and

wherein the aromatic-polyether-type ultrahigh molecular weight polymer has a number-average molecular weight in terms of polystyrene of 100,000 or more.

6. (currently amended): A process for producing an aromatic-polyether-type ultrahigh molecular weight polymer of claim 5 which comprises polymerizing by a condensation reaction at least one polymer selected from the polymers represented by the following formulas (3) and (4) in the presence of a zerovalent transition metal complex:



[[[]]wherein Ar<sup>1</sup>, Ar<sup>2</sup>, m and n are the same as defined ~~above~~ in claim 5, X represents a group which is eliminated at the condensation reaction, and a plurality of X may be different[[]]].

7. (original): A process for producing an aromatic-polyether-type ultrahigh molecular weight polymer according to claim 6, wherein X is chlorine, bromine, iodine, p-toluenesulfonyloxy group, methanesulfonyloxy group or trifluoromethanesulfonyloxy group.
8. (original): A polymer electrolyte comprising the aromatic-polyether-type ion-conductive ultrahigh molecular weight polymer of claim 1 as an effective component.
9. (original): A polymer electrolyte membrane comprising the polymer electrolyte of claim 8.
10. (original): A catalyst composition comprising the polymer electrolyte of claim 8.
11. (original): A fuel cell comprising the polymer electrolyte membrane of claim 9 and/or the catalyst composition of claim 10.